

**SYSTEMS AND METHODS OF DETECTING AND CORRECTING
REDEYE IN AN IMAGE SUITABLE FOR EMBEDDED
APPLICATIONS**

ABSTRACT

5 Systems and methods of detecting and correcting redevye in an image are
described. In one aspect, the input image is sub-sampled to generate a thumbnail
image, redevye pixel areas are detected in the thumbnail image. In another aspect,
an input image having lines of pixels with original color values is processed. One
or more redevye pixel areas corresponding to respective areas in the input image
10 are detected. Each pixel in the input image corresponding to the detected redevye
pixel areas is classified as a redevye pixel or a non-redevye pixel on a line-by-line
basis without reference to pixels in adjacent lines. The original color values of
pixels in the input image classified as redevye pixels are corrected.